



ICAO | UNITING AVIATION

Information Management Panel (IMP) Update

Chairman : Jean-Francois Grout - IATA

Secretary : Alex Pufahl

ATIEC, Brussels, 5-6 October 2017



Outline

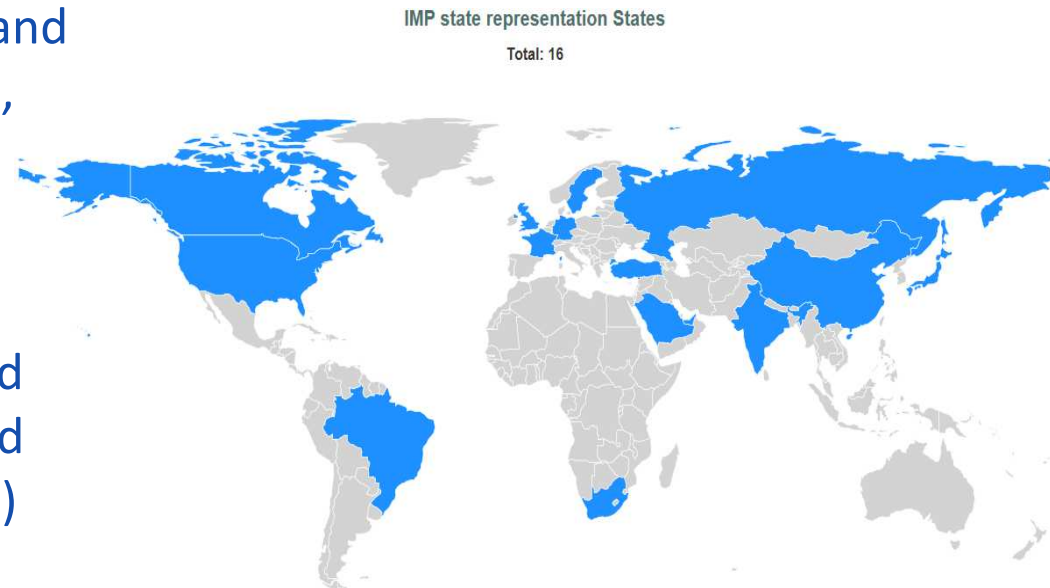
- IMP Overview
- IMP Structure (WG-I, WG-S, WG-G)
- IMP Current Discussions
- IMP Planned Deliverables
- Looking ahead



IMP Overview

- **Members**

- 23 Members from 16 States and 6 International Organizations, covering all 7 ICAO Regions
- IMP/WG/4 participation: 43 (14 members, 28 advisors and 1 observer from 13 States and 6 International Organizations)





IMP Overview

- **Meetings**

- IMP/1 Panel - Montréal, 26-30 Jan 2015
- IMP/WG/1 - Montréal, 16-20 Nov 2015
- IMP/WG/2 - Paris, 25-29 Apr 2016
- IMP/WG/3 - Montréal, 14-18 Nov 2016
- IMP/WG/4 - Montréal, 01-05 May 2017
- IMP/WG/5 - Montréal, 06-10 Nov 2017
- IMP/WG/6 - Montréal, 23-27 Apr 2018
- IMP/2 Panel - Montréal, 28-01 Feb 2019





IMP Structure

- **WG-I Information Architecture & Management**
 - *to develop provisions and guidance material to describe information management concepts, functions and processes and the architectural information framework (Job Card 002)*
- **WG-S Information Services**
 - *to develop a concept for Information Services, including a SWIM Service Description Template and associated provisions and guidance material (Job Card 004)*
- **WG-G SWIM Governance**
 - *to develop provisions and guidance material to describe governance rules within the future SWIM (Job Card 005)*

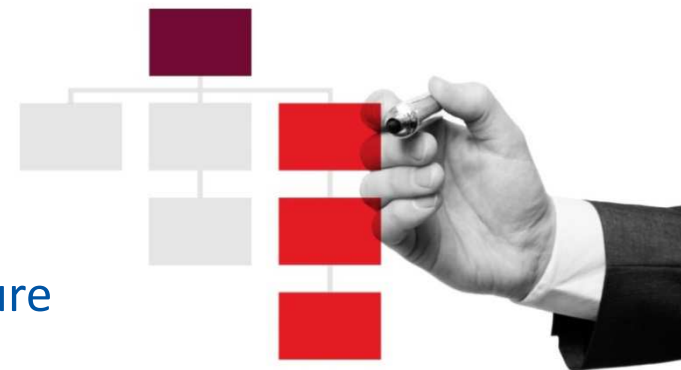


IMP Current Discussions



IMP WG-I: Information Architecture & Management

- Update of Doc.10039, Manual on SWIM Concept
 - ✓ Transforming it into a SWIM Manual consisting of two Volumes
 - ✓ Volume 1: SWIM Concept, addresses also SWIM governance and interoperability architecture
 - ✓ Volume 2: Implementation Guidance
- Define SWIM Terminology and definitions
- Introduce AIRM for semantic interoperability
- Develop guidance for SWIM technical infrastructure



IMP WG-S: Information Services

- Information service description template
 - ✓ To help service consumers discover and select information services
- Information Service Quality
 - ✓ To specify quality characteristics that apply to the provision of information services, e.g. availability
- Information Service Access
 - ✓ To define rules for secure access
- Terminology used regarding Information Services



IMP WG-G: SWIM Governance

- SWIM quality requirements to enable data quality across all SWIM data domains:
 - ✓ Data, Information and Service quality
 - ✓ Quality Management System for SWIM
- SWIM Information services validation
 - ✓ Identifying different validation methods
- SWIM Registry for service discovery
- Governance of information exchange models (e.g. AIXM, iWXXM, FIXM)





IMP Planned Deliverables (by IMP/2 in Feb. 2019)

- **Documents**

- Updated Doc 10039 SWIM Manual, Vol. 1 and 2 (1st edition)
 - Including operational scenarios and use cases
- Air Traffic Management Information Reference Model (AIRM)
 - Including guidance material

- **Provisions**

- Initial SWIM SARPs including affected Annexes and PANS
 - Supported by Guidance Material, and
 - Impact Assessment





Looking ahead...

- SWIM as a replacement for all current ATS messages
- Enabler for all envisioned ATM information exchange in support of ATM operations
- SWIM to provide a flexible platform for information services to meet operational needs

- Initial set of provisions to lay a solid foundation for future evolutions of information management.





Invitation

You are invited to visit us at GANIS/SANIS at ICAO HQ in Montreal, 11 to 15 December 2017.

- Two back to back symposia laying the foundation for the 13th AN-Conference in 2018 and the 40th ICAO Assembly in 2019
- Dedicated thread on **Information Management** with an impressive list of speakers representing a cross-section of the international ATM community
- Includes an industry exhibition of current and emerging technologies
- A crucial networking and knowledge-sharing opportunity



What you will get from attending?

- GANIS
 - ✓ An update of industry on the most recent evolution in Air Navigation related technologies
 - ✓ Clear view of the evolution of the Air Navigation
 - ✓ A forum to share your views for inclusion in the GANP 2019 edition
 - ✓ An understanding of ICAO Secretariat role and views on Cyber safety and resiliency
- SANIS:
 - ✓ An understanding of ICAO implementation strategies
 - ✓ Tools to support implementation
 - ✓ A better understanding of the GASP 2020-2022
 - ✓ Demonstration of implemented solutions, their benefits and deployment examples



Thank You